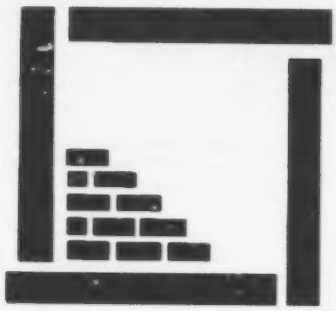
CC87-I-28(P)



PRELIMINARY REPORTS
INDUSTRY SERIES

1987 Census of Construction Industries

CC87-I-28(P)
Issued June 1989

UNITED STATES

(Industry Summary)
Establishments With Payroll

During 1987, the establishments with paid employees which were operating primarily as general building contractors and operative builders, heavy construction contractors, special trade contractors, or land subdividers and developers accounted for $538 billion in total dollar value of business. Of this amount, $513 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to $139 billion leaving net value of construction work of $375 billion. Total employment averaged 5,122,847 for the year with a total payroll of $113 billion. Value added for 1987 was $234 billion.

This report summarizes the data from the preliminary reports already published for each of the industries covered by the 1987 Census of Construction Industries. Establishments have been classified in construction industries in accordance with industry definitions described in the 1987 Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget, Executive Office of the President.

A "construction establishment" is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sampled establishment covering domestic operations.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have excluded the value of work in progress during the calendar year. Receipts may have also excluded work done by builders engaged in construction for sale on their own account or for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

The data in this report are estimated from a sample survey and are subject to sampling variability as well as errors of response and nonreporting. The relative standard error shown in the tables is a measure of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are available upon request and will be included in the final report.

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Table 1. Detailed Statistics for Establishments With Payroll by Industry Group: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 3]

Item	Construction industries and subdividers and developers	Construction industries				Subdividers and developers, n.e.c.	Relative standard error of estimate (percent) for column—					
		Total	Building construction—general contractors and operative builders	Heavy construction other than building construction—contractors	Special trade contractors							
	A	B	C	D	E	F	A	B	C	D	E	F
Number of establishments in business during year	548 532	539 861	159 529	37 009	343 323	8 672	(W)	(W)	1	1	(W)	2
Proprietors and working partners	140 043	138 995	35 234	7 032	96 730	1 048	1	1	2	4	1	10
All employees**	5 122 847	5 069 937	1 301 740	838 011	2 930 186	52 910	(W)	(W)	1	1	(W)	3
Construction workers:												
March	3 690 099	3 678 073	878 554	579 334	2 220 185	12 026	(W)	(W)	(W)	(W)	(W)	3
May	4 070 613	4 057 491	940 515	716 300	2 400 677	13 122	(W)	(W)	(W)	(W)	(W)	3
August	4 333 934	4 320 291	1 007 022	764 025	2 549 245	13 643	(W)	(W)	(W)	(W)	(W)	3
November	4 044 193	4 031 825	932 943	711 934	2 386 947	12 369	(W)	(W)	(W)	(W)	(W)	3
Average	4 034 438	4 021 657	939 716	692 878	2 389 062	12 781	(W)	(W)	1	1	(W)	6
Other employees:												
March	1 072 774	1 033 703	356 282	143 273	534 149	39 071	(W)	(W)	(W)	(W)	(W)	2
May	1 081 380	1 041 589	361 142	144 779	535 668	39 790	(W)	(W)	(W)	(W)	(W)	2
August	1 103 749	1 062 261	368 528	147 051	546 682	41 487	(W)	(W)	(W)	(W)	(W)	2
November	1 095 182	1 055 048	362 089	145 406	547 553	40 134	(W)	(W)	(W)	(W)	(W)	2
Average	1 088 409	1 048 280	362 024	145 132	541 124	40 129	(W)	(W)	1	1	1	4
Construction worker hours (thousands):												
January to March	1 502 676	1 497 938	355 455	248 566	893 917	4 738	(W)	(W)	(W)	1	(W)	4
April to June	1 729 823	1 724 552	394 354	328 159	1 002 039	5 271	(W)	(W)	1	1	(W)	4
July to September	1 872 222	1 866 729	422 992	364 284	1 079 453	5 493	(W)	(W)	(W)	1	(W)	5
October to December	1 733 657	1 728 584	394 663	326 983	1 006 938	5 073	(W)	(W)	1	1	(W)	4
Total hours worked	6 838 377	6 817 803	1 567 464	1 267 992	3 982 347	20 574	(W)	(W)	(W)	1	(W)	4
Payroll, all employees	112 527 762	111 381 492	28 480 633	20 681 548	62 219 312	1 146 270	(W)	(W)	(W)	(W)	(W)	2
Payroll, construction workers	80 911 615	80 705 150	17 576 758	15 732 786	47 395 606	206 465	(W)	(W)	(W)	(W)	(W)	3
Payroll, other employees	31 878 290	30 676 342	10 903 875	4 948 761	14 823 705	1 201 948	(W)	(W)	(W)	(W)	(W)	2
First quarter payroll, all employees	24 655 138	24 385 278	6 436 284	4 125 793	13 823 201	269 860	(W)	(W)	(W)	(W)	(W)	2
Employer costs for fringe benefits, all employees	25 445 658	25 251 999	6 036 781	5 027 221	14 187 997	193 659	(W)	(W)	(W)	(W)	(W)	2
Legally required expenditures	17 286 579	17 142 604	4 182 604	3 292 785	9 667 214	143 975	(W)	(W)	(W)	(W)	(W)	2
Voluntary expenditures	8 159 080	8 109 395	1 854 177	1 734 436	4 520 782	49 684	(W)	(W)	(W)	(W)	(W)	2
Dollar value of business done	537 552 983	527 620 104	235 071 821	87 153 823	205 394 460	9 932 879	(W)	(W)	(W)	(W)	(W)	1
Value of construction work	513 380 608	507 270 725	221 873 736	83 742 355	201 654 634	6 109 883	(W)	(W)	(W)	(W)	(W)	2
Value of construction work subcontracted in from others	120 222 191	120 123 215	8 889 198	14 729 918	96 504 099	98 976	(W)	(W)	1	1	(W)	7
Other business and land receipts	24 172 395	20 349 400	13 198 106	3 411 468	3 739 826	3 822 996	(W)	(W)	1	(W)	1	2
Net value of construction work†	374 783 489	371 374 551	115 179 340	69 248 193	186 947 018	3 408 939	(W)	(W)	(W)	(W)	(W)	2
Value added††	234 267 829	231 152 949	67 382 379	45 349 287	118 421 283	3 114 880	(W)	(W)	(W)	(W)	(W)	2
Selected costs	292 537 740	288 963 074	160 184 678	41 804 625	86 973 771	3 574 666	(W)	(W)	(W)	(W)	(W)	2
Materials, components, and supplies	146 317 797	145 533 409	51 815 976	24 961 573	68 755 861	784 387	(W)	(W)	(W)	(W)	(W)	4
Construction work subcontracted to others	138 598 110	135 896 822	106 695 027	14 494 162	14 707 632	2 701 288	(W)	(W)	(W)	(W)	(W)	3
Selected power, fuels, and lubricants	7 621 833	7 532 843	1 673 675	2 348 890	3 510 278	88 991	(W)	(W)	(W)	(W)	(W)	2
Electricity	1 116 686	1 085 920	406 191	212 310	467 420	30 765	(W)	(W)	1	(W)	(W)	3
Natural gas	302 265	298 682	92 134	89 955	116 594	3 583	1	(W)	2	1	1	6
Gasoline and diesel fuel	5 708 266	5 662 024	1 088 181	1 854 529	2 719 314	46 242	(W)	(W)	1	(W)	(W)	2
On highway use	4 100 229	4 058 918	942 602	840 190	2 276 126	41 311	(W)	(W)	1	1	(W)	2
Off highway use	1 608 037	1 603 106	145 578	1 014 340	443 188	4 931	(W)	(W)	3	(W)	1	5
Other, including lubricating oils and greases	518 933	510 512	98 014	193 146	219 352	8 421	(W)	(W)	2	(W)	1	4
Rental costs for machinery, equipment, and buildings	7 861 327	7 814 927	1 626 598	2 914 238	3 274 091	46 401	(W)	(W)	1	1	(W)	3
For machinery and equipment	5 577 953	5 563 427	973 812	2 659 551	1 930 064	14 526	(W)	(W)	1	1	1	4
For buildings	2 337 630	2 305 314	672 190	263 288	1 369 836	32 317	(W)	(W)	1	1	(W)	3
Selected purchased services	7 625 872	7 524 376	1 441 256	2 880 381	3 202 739	101 496	(W)	(W)	1	(W)	(W)	4
Communication services	2 071 257	2 031 116	610 663	267 147	1 153 305	40 141	(W)	(W)	1	1	(W)	3
Repairs to buildings and other structures	454 189	435 876	143 510	77 356	215 009	18 313	1	1	2	3	1	14
Repairs to machinery and equipment	5 121 004	5 077 822	691 222	2 536 300	1 849 700	43 182	(W)	(W)	1	(W)	1	4
Ownership of construction projects:												
Value of construction work	513 380 608	507 270 725	221 873 736	83 742 355	201 654 634	6 109 883	(W)	(W)	(W)	(W)	(W)	2
Government owned	101 751 578	101 645 311	27 547 705	45 368 433	28 729 173	106 267	(W)	(W)	(W)	(W)	(W)	5
Federal	27 703 569	27 694 726	8 761 138	10 113 464	8 820 123	8 844	(W)	(W)	1	(W)	1	15
State and local	74 048 009	73 950 585	18 786 567	35 254 969	19 909 049	97 424	(W)	(W)	1	(W)	(W)	5
Privately owned	411 629 029	405 625 413	194 326 030	38 373 922	172 925 462	6 003 616	(W)	(W)	(W)	(W)	(W)	2

Table 2. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see below.]

Item	1987	1982	Relative standard error of estimate (percent) 1987	1982
Value of construction work[1]	**513 380 608**	**312 178 494**	**(W)**	**(W)**
Building construction	**381 024 941**	**209 003 904**	**(W)**	**(W)**
Single-family houses	127 304 706	53 033 820	(W)	(W)
Single-family houses, detached	104 891 997	43 756 104	(W)	(W)
Single-family houses, attached	22 412 709	9 277 716	1	1
Apartment buildings with two or more apartments	21 406 593	14 172 862	(W)	(W)
Other residential buildings, including hotels and motels	16 268 771	6 102 737	(W)	(W)
Hotels and motels	9 354 127	(NA)	(W)	(NA)
Other residential buildings, excluding hotels and motels	6 914 644	(NA)	1	(NA)
Office buildings	61 196 194	44 501 771	(W)	(W)
Other commercial buildings such as stores, restaurants, and automobile service stations	47 120 499	16 902 859	(W)	(W)
Industrial buildings and warehouses	52 972 947	42 289 621	(W)	(W)
Industrial buildings	41 682 527	35 447 782	(W)	(W)
Warehouses	11 290 420	6 841 838	1	(W)
Religious buildings	4 513 916	2 562 379	1	1
Educational buildings	16 649 770	9 431 419	(W)	(W)
Hospitals and institutional buildings	20 123 062	13 934 073	(W)	(W)
Farm buildings	1 599 188	1 624 482	2	2
Amusement, social, and recreational buildings	3 127 278	2 263 971	1	1
Other nonresidential buildings	5 263 414	2 183 906	2	1
Land development for buildings	3 478 602	(NA)	2	(NA)
Nonbuilding construction	**107 607 475**	**82 366 302**	**(W)**	**(W)**
Highways, streets, and related facilities	33 944 504	20 518 447	(W)	(W)
Outdoor swimming pools	2 364 613	515 797	3	3
Airport runways	159 330	108 774	5	3
Parking areas including private driveways	3 524 595	439 532	2	2
Fencing	1 159 444	325 932	3	4
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	1 164 844	(NA)	3	(NA)
Bridges, tunnels, and elevated highways	7 443 768	4 342 924	(W)	(W)
Tunnels	940 468	801 871	1	1
Bridges and elevated highways	6 503 300	3 541 053	(W)	(W)
Dam and reservoir construction	1 058 752	832 770	1	1
Marine construction	1 632 591	1 741 680	2	1
Harbor and port facilities	626 932	655 171	3	1
Conservation and development construction	1 646 426	1 104 661	2	2
Power and communication transmission lines, towers and related facilities	6 431 148	4 597 687	(W)	(W)
Sewers, water mains, and related facilities	13 668 532	8 493 509	1	1
Sewers, sewer lines, and related facilities	8 047 834	5 176 792	1	1
Water mains and related facilities	5 620 699	3 316 716	1	1
Pipe line, other than sewer or water lines	3 262 527	3 161 401	1	(W)
Mass transit construction	1 416 394	1 923 398	1	(W)
Subways	737 583	1 159 314	(W)	(W)
Railroads	678 811	764 084	3	1
Blast furnaces, petroleum refineries, and chemical complexes	6 608 159	10 521 935	(W)	(W)
Power plants	6 864 480	14 385 752	(W)	(W)
Power plants, nuclear	2 360 799	7 140 373	(W)	(W)
Power plants, except nuclear	4 503 682	7 245 378	(W)	(W)
Sewage treatment and water treatment plants	6 246 758	4 257 679	1	(W)
Sewage treatment plants	4 138 902	2 927 777	1	(W)
Water treatment plants	2 107 856	1 329 902	1	1
Oilfields	500 387	1 472 532	3	1
Earthmoving, nonbuilding	2 788 804	(NA)	2	(NA)
Other nonbuilding construction	5 074 487	2 966 721	2	1
Construction work, n.s.k.	**24 748 192**	**20 808 287**	**1**	**(W)**

[1]In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity done during the year.

The following abbreviations and symbols are used in the tables in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees is the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- – Represents zero.
- † Represents value of construction work less payments for construction work subcontracted to others.
- †† Represents dollar value of business done less payments for construction work subcontracted to others, and payments for material, components, supplies, and fuels. In SIC's 1531, 6552, land receipts are also subtracted from "dollar value of business done".
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

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